

FY2005

WAIAWA GULCH

Installation Action Plan



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FY2005

**Waiawa Gulch
Installation Action Plan**

Printed January 2004



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Statement of Purpose

The purpose of the Installation Action Plan (IAP) is to outline the total multi-year restoration program for an installation. The plan will define all Installation Restoration Program (IRP) requirements and propose a comprehensive approach and associated costs to conduct future investigations and remedial actions at each Solid Waste Management Unit (SWMU) at the installation and other areas of concern.

In an effort to coordinate planning information between the IRP manager, installations, executing agencies, regulatory agencies, and the public, an IAP has been completed for Waiawa Gulch. The IAP is used to track requirements, schedules and tentative budgets for all major Army installation restoration programs.

All site specific funding and schedule information has been prepared according to projected overall Army funding levels and is, therefore, subject to change during the document's annual review. Under current project funding, all remedies will be in place at Waiawa Gulch by the end of 2005.

The following agencies contributed to the formulation and completion of this Installation Action Plan:

Engineering and Environment, Inc.

National Guard Bureau

PPC - AEC Support - Price-Based Contracting

US Army Reserves for US Army Environmental Center

Acronyms & Abbreviations

AEC	(United States) Army Environmental Center (formally called USATHMA)
AEDB-R	Army Environmental Database - Restoration
AIT	Advanced Individual Training
ANCOC	Advanced Noncommissioned Officer Course
AR	Administrative Record
AST	Aboveground Storage Tank
ATSDR	Agency for Toxic Substance Disease Registry
BCT	Basin Combat Training
BNCOC	Basic Noncommissioned Officer Course
BTEX	Benzene, Toluene, Ethylbenzene and Xylene
CAP	Corrective Action Plan
CDTF	Chemical Defense Training Facility
CERCLA	Comprehensive Environmental Response Compensation and Liability Act (1980)
CFC	Chloroflourocarbon
CPT	Cone Penetrometer Technology
CTC	Cost-to-Complete
cy	cubic yards
DCE	Dichloroethene
DERP	Defense Environmental Restoration Program (now called ER,A)
DNT	Di Nitro Toluene
DOL	Directorate of Logistics
DPW	Directorate of Public Works
DRMO	Defense Reutilization and Marketing Office
DSERTS	Defense Site Environmental Restoration Tracking System (now called AEDB-R)
EPA	(United States) Environmental Protection Agency
ER,A	Environmental Restoration, Army (formally called DERA)
FFA	Federal Facility Agreement
FRA	Final Remedial Action
FS	Feasibility Study
FUDS	Formerly Used Defense Sites
FY	Fiscal Year
gal	gallon
IAP	Installation Action Plan
IR	Information Repository
IRA	Interim Remedial Action
IRP	Installation Restoration Program
ITR	Independent Technical Review
K	\$1,000
LEL	Lower Explosive Limit
LTM	Long-term Monitoring
LTO	Long-term Operation
LUC	Land Use Controls
MANSCEN	Maneuver Support Center
MCL	Maximum Contaminant Level
MOS	Military Occupational Specialty
MSL	mean sea level
NCO	Noncommissioned Officer
NE	Not Evaluated
NFA	No Further Action
NFRAP	No Further Remedial Action Plan

Acronyms & Abbreviations

NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
OB/OD	Open Burning / Open Detonation
PA	Preliminary Assessment
PCB	Polychlorinated Biphenyl
PCE	type of chlorinated solvent
PCP	pentachlorophenol
PLDC	Primary Leadership Development Course
POL	Petroleum, Oil & Lubricants
POM	Program Objective Memorandum (budget)
RA	Remedial Action
RAB	Restoration Advisory Board
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RD	Remedial Design
REM	Removal
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RI	Remedial Investigation
RIP	Remedy in Place
ROD	Record of Decision
RRSE	Relative Risk Site Evaluation
RSC	Reserve Support Command
SCR	Site Characterization Report
SI	Site Inspection
STP	Sewage Treatment Plant
SVE	Soil Vapor Extraction
SVOC	Semi-Volatile Organic Compounds
SWMU	Solid Waste Management Unit
TAL	Target Analyte List
TCA	Trichloroethane
TCE	Tro Chloro Ethylene
TNT	Tri Nitro Toluene
TRC	Technical Review Committee
USACE	United States Army Corps of Engineers
USAEHA	United States Army Environmental Hygiene Agency (now called CHPPM)
USATHMA	United States Army Toxic and Hazardous Material Agency (now called AEC)
USGS	United State Geological Survey
UST	Underground Storage Tank
VDEQ	Virginia Department of Environmental Quality
VOC	Volatile Organic Compounds
yr	year

STATUS:	Non-NPL, no RCRA Part B Permit	
NUMBER OF AEDB-R SITES:	Total of AEDB-R Sites: 2 Active AEDB-R Sites: 1 Response Complete AEDB-R Sites: 1	
DIFFERENT AEDB-R SITE TYPES:	1 Drainage Ditch	1 Storage Area
CONTAMINANTS OF CONCERN:	Lead	
MEDIA OF CONCERN:	Sediment, Surface Water, Soil	
COMPLETED REM/IRA/RA:	None	
CURRENT IRP PHASES:	RI/FS: 1 site RD: 1 site RA(C): 1 site	
PROJECTED IRP PHASES:	LTM: 1 site	
IDENTIFIED POSSIBLE REM/IRA/RA:	RA at 1 site	
DURATION:	Year of IRP Inception	1993
	Year of RA Completion	2005
	Year of IRP Completion (excluding LTM)	2005

Installation Information

LOCALE: Waiawa Gulch is a 19.9 acre site located in the central portion of the island of Oahu, Hawaii, in Pearl City, in the county of Honolulu. The approximate geographic coordinates are 21 24' N latitude and 157 58' W longitude

COMMAND ORGANIZATION: Major Command: National Guard Bureau
— Installation: Hawaii Army National Guard Facility, Waiawa Gulch, HI
— Investigation phase executing agency: Installation
— Interim Remedial Action Phase Executing Agency: Installation

REGULATORY PARTICIPATION: — Federal: U.S. EPA, Region IX: Requested SI
— State: Hawaii Department of Health: Requested SI

REGULATORY STATUS: — None

MAJOR CHANGES TO IAP FROM THE PREVIOUS YEAR: — None

Installation Description

Waiawa Gulch is 19.915 acres of federally owned land originally acquired from the Navy in 1959. The Navy reportedly used the site for storage of vehicles and other materials since 1945. The property included warehouses, a maintenance shop, and an administrative building. The original acquisition was reduced by disposal from 36 acres to the current 19.9 acres under permit from the Navy. The HI ARNG has demolished several buildings and rebuilt others. HI ARNG use includes operation of a mobilization and training equipment site (MATES), equipment and material storage, and classroom training.

Contamination Assessment

- Preliminary Assessment, initiated by MACOM, completed in August 1993 by Argonne National Laboratory.
- Site Inspection requested by both the U.S. EPA and the Hawaii Department of Health.
- The U.S. Army Center for Health Promotion and Preventative Medicine has completed SI activities.

Previous Studies

None

Waiawa Gulch

AEDB-R SITES

WG-02 DRAINAGE AREAS

SITE DESCRIPTION

WG-02, Drainage Areas, is a dry well/clarifier located in the southwest corner of the property and is adjacent to the POL and waste storage areas. The site is approximately 15,000 sq ft in size. Storm drains and pipes throughout the installation drain into this dry well/clarifier location. Preliminary SI sampling results indicate POL and BTEX contamination.

This site was a former Navy heavy maintenance site and was structured for wheeled vehicle maintenance. There are grease racks and interior bays still located throughout the site.

PROPOSED PLAN

An RI is needed to characterize the extent of the contamination. Excavation and land farming may possibly be needed for ~ 3,000 cys of non-hazardous contaminated soil.

STATUS

RRSE RATING:

LOW

CONTAMINANTS:

POL, BTEX

MEDIA OF CONCERN:

Surface Water, Soil, Sediment,
Groundwater

COMPLETED IRP PHASE:

PA/SI

CURRENT IRP PHASE:

RI/FS

FUTURE IRP PHASE:

RD, RA, LTM

WG-01 POL/HAZMAT STORAGE AREAS

SITE DESCRIPTION

The preliminary assessment determined that no further action is required for this site.

STATUS

RRSE RATING:

NE

CONTAMINANTS:

Pesticides

MEDIA OF CONCERN:

Soil

COMPLETED IRP PHASE:

PA

CURRENT IRP PHASE:

RC - 199510

IRP activities began in May 1993 with record research prior to the PA site visit. The SI was completed in January 1998. Additional sampling of the drainage pathways may be required after regulatory review. Supplemental SI activities are scheduled for FY 04 and 05.

PAST MILESTONES

PA - May 1993

SI - January 1998

FUTURE MILESTONES

RA - FY04-05

Waiawa Gulch IAP Schedule

(Based on current constained funding)

		Current Phase	Future Phase				
		FY05	FY06	FY07	FY08	FY09	FY10+
WG-02	RI/FS						
	RD						
	RA						
	LTO						
	LTM						

Remediation Activities

Past REM/ RA/ IRA

NONE

Current REM/ RA/ IRA

NONE

Community Involvement

RESTORATION ADVISORY BOARD (RAB) STATUS

— RAB not established, no significant clean-up issues.